USGS
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Earthquake Shaking — Green Alert
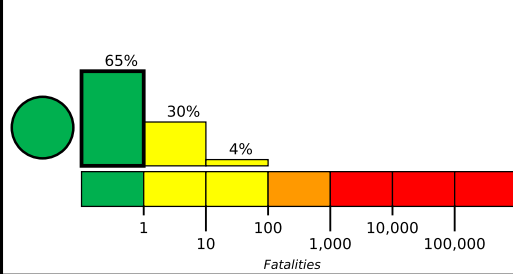
GSN · ANSS · USAID FROM THE AMERICAN PEOPLE

M 5.1, 88km ESE of Maneadero, B.C., MX

Origin Time: 2020-08-17 15:30:33 UTC (Mon 08:30:33 local)
Location: 31.5367° N 115.6613° W Depth: 16.2 km
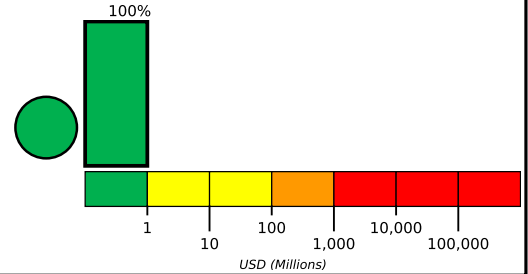**FOR TSUNAMI INFORMATION, SEE: tsunami.gov**

PAGER
Version 4

Created: 46 minutes, 8 seconds after earthquake

Estimated Fatalities

65% · 30% · 4%

1 · 10 · 100 · 1,000 · 10,000 · 100,000
Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
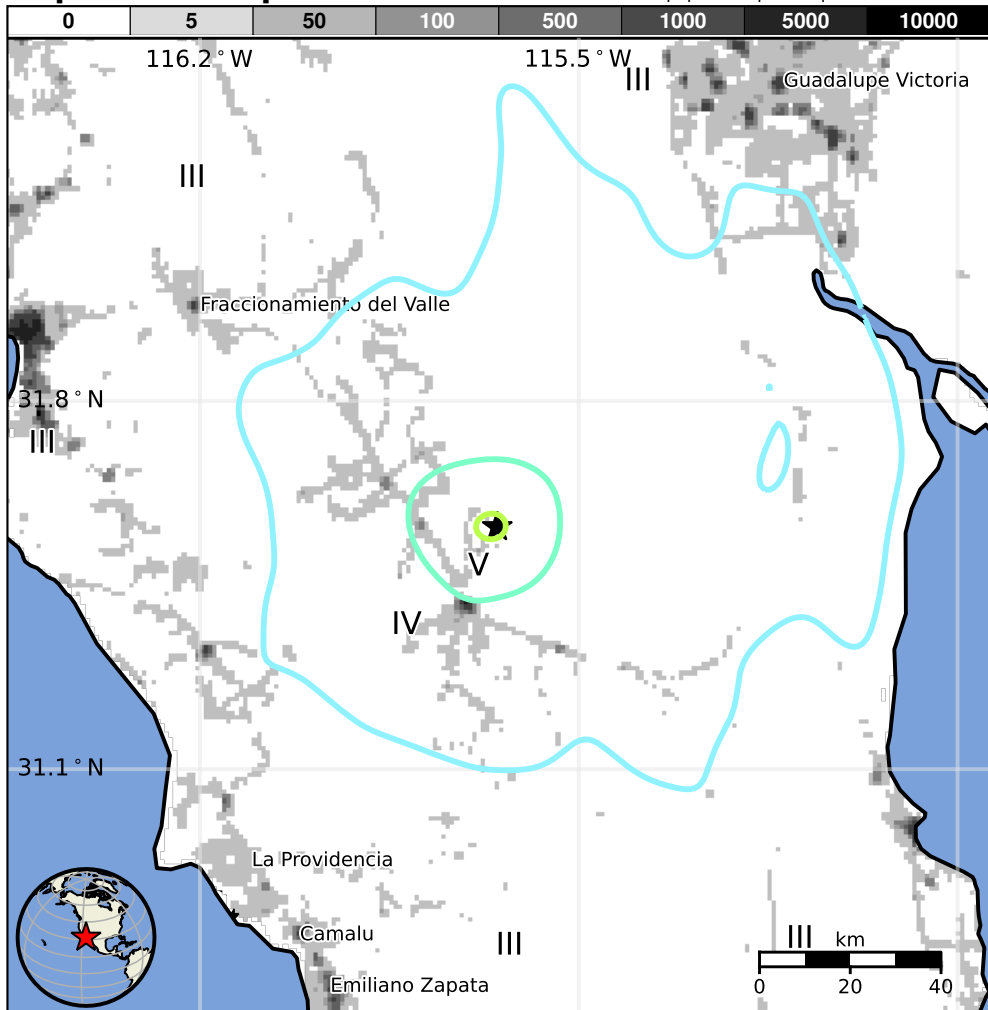
Estimated Economic Losses

100%

1 · 10 · 100 · 1,000 · 10,000 · 100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	548k*	46k	5k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

| 0 | 5 | 50 | 100 | 500 | 1000 | 5000 | 10000 |

Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	371	5.6	VI(1,267k)	1
1992-06-28	305	7.3	VIII(23k)	1
1994-01-17	398	6.7	IX(73k)	33

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Fraccionamiento del Valle**	1k
III	Ejido Doctor Alberto Oviedo Mota (El Indiviso)	1k
III	Doctor Alberto Oviedo Mota	8k
III	**Guadalupe Victoria**	18k
III	Ejido Plan de Ayala	2k
III	Ciudad Coahuila (Kilometro Cincuenta y Siete)	6k
III	Vicente Guerrero	13k
III	Ensenada	257k
III	Rodolfo Sanchez Taboada	18k
III	San Felipe	15k
III	El Sauzal	9k

bold cities appear on map. (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/ci39347679#pager

Event ID: ci39347679